Title (en)
Coordinate measuring machine

Title (de)
Koordinatenmessmaschine

Title (fr)
Machine de mesure de coordonnées

Publication
EP 2204636 A3 20130515 (EN)

Application
EP 09180277 A 20091222

Priority
JP 2009000675 A 20090106

Abstract (en)
[origin: EP2204636A2] A coordinate measuring machine includes: a probe (21) that has a contact point (211A) capable of movement within a predetermined range; a movement mechanism (22) for moving the probe (21); and a controller (5) for controlling the movement mechanism (22). The controller (5) has a measurement value calculating unit (53) for calculating a position of the contact point based on a displacement of the movement mechanism (22) and a displacement of the probe (21). The measurement value calculating unit (53) includes: a correction parameter calculator (531) for calculating a correction parameter for correcting the displacement of the probe based on a measurement condition in measuring an object; a corrector (532) for correcting the displacement of the probe based on the correction parameter; and a displacement synthesizing unit (533) that synthesizes the displacement of the movement mechanism and the displacement of the probe corrected by the corrector (532) to calculate the position of the contact point.

IPC 8 full level
G01B 21/04 (2006.01); G01B 5/008 (2006.01)

CPC (source: EP US)
G01B 21/045 (2013.01 - EP US)

Citation (search report)
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- [YA] EP 0420416 A2 19910403 - RENISHAW PLC [GB]
- [YA] WO 2006115923 A2 20061102 - RENISHAW PLC [GB], et al
- [YA] US 2002091497 A1 20020711 - RUCK OTTO [DE]
- [IA] Q ET AL: "Error compensation of touch trigger probes", MEASUREMENT, INSTITUTE OF MEASUREMENT AND CONTROL. LONDON, GB, vol. 18, no. 1, 1 May 1996 (1996-05-01), pages 47 - 57, XP004040458, ISSN: 0263-2241, DOI: 10.1016/0263-2241(96)00044-9

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2204636 A2 20100707; EP 2204636 A3 20130515; EP 2204636 B1 20140716; CN 101769704 A 20100707; CN 101769704 B 20131211; JP 2010159981 A 20100722; JP 5297818 B2 20130925; US 2010174504 A1 20100708; US 8229694 B2 20120724

DOCDB simple family (application)
EP 09180277 A 20091222; CN 201010002203 A 20100106; JP 2009000675 A 20090106; US 65108209 A 20091231